

AMENDMENTS
In the Claims

Current Status of Claims

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1 123.(currently amended) A cross-laminate comprising:

2 a first coextruded film A having a film A main direction of uniaxial or unbalanced biaxial
3 molecular orientation and including:

4 a continuous main layer comprising a first polymer material selected to have a high
5 tensile strength,

6 a continuous bonding layer comprising a second polymer material and disposed on
7 a first surface of the main layer, and

8 ~~a plurality of arrays~~ an array of substantially parallel film A first strands coextruded
9 on a top surface of the bonding layer in a spaced apart configuration, and comprising
10 a third polymer material different from the first and second polymer materials, where
11 a separation between adjacent ~~arrays~~ strands of film A ~~first strands~~ is array is between
12 2mm and 8 cm measured from a middle of one ~~array~~ strand to a middle of an adjacent
13 ~~array~~ strand,

14 a second coextruded film B having a film B main direction of uniaxial or unbalanced biaxial
15 molecular orientation and including:

16 a continuous main layer comprising a fourth polymer material selected to have a high
17 tensile strength,

18 a continuous bonding layer comprising a fifth polymer material and disposed on a
19 first surface of the main layer, and

20 ~~a plurality of arrays~~ an array of substantially parallel film B first strands coextruded
21 on a top surface of the bonding layer in a spaced apart configuration, and comprising
22 a sixth polymer material different from the fourth and fifth polymer materials, where
23 a separation between adjacent ~~arrays~~ strands of film B ~~first strands~~ array is between

1 2 mm and 8 cm measured from a middle of one ~~array~~ strand to a middle of an
2 adjacent ~~array~~ strand,
3 where the film A and the film B are arranged such that the first surface of the film A faces
4 the first surface of the film B and their bonding layers and arrays of strands on the first
5 surfaces face each other and such that the film B main direction crosses the film A main
6 direction and the arrays of the film B first strands cross the arrays of the film A first strands,
7 a first bonding pattern formed between the first surface of the film A and the first surface of
8 the film B comprising:
9 first bonds comprising spot-bonds formed directly between the film A first strands
10 and the film B first strands, where the film A first strands intersect the film B first strands,
11 second bonds comprising contact lines between the film A bonding layer and the film
12 B first strands or the film B bonding layer and the film A first strands, and
13 third bonds comprising contact regions between the film A bonding layer and the film
14 B bonding layer, where the regions are devoid of the film A first strands and the film B first
15 strands,
16 where the first bonds have a higher bond strength than a bond strength of the third
17 bonds, and
18 where the strands have a thickness of no more than 30% of a thickness of their respective
19 films at their thickest.

1 124.**(currently amended)** The cross-laminate according to claim 123, further comprising:
2 an exterior layer formed on an exterior surface of at least the film B comprising an exterior
3 layer polymer material ~~adapted to~~ enhances a surface property of the laminate, where the property
4 is selected from the group consisting of its heat-sealing capability and its frictional property.

1 125.**(previously presented)** The cross-laminate according to claim 123, wherein the second bonds
2 have a bond strength greater than the bond strength of the third bonds.

126.**(canceled)**

127.**(canceled)**

1 128.**(previously presented)** The cross-laminate according to claim 123, wherein a collective area
2 of the film A first strands and the film B first strands comprises no more than 60% of a surface area
3 of their respective film sides.

1 129.**(previously presented)** The cross-laminate according to claim 123, wherein a thickness
2 increase of the films A and B at their respective strand locations is at most 20% of a film thickness
3 of the films A and B in adjacent regions of the films A and B devoid of their respective strands.

1 130.**(previously presented)** The cross-laminate according to claim 123, wherein a thickness
2 increase of the films A and B at their respective strand locations is at most 10% of a film thickness
3 of the films A and B in adjacent regions of the films A and B devoid of their respective strands.

1 131.**(previously presented)** The cross-laminate according to claim 123, wherein a volume of the
2 film A strands and the film B strands is not greater than 15% of a volume of their respective films.

1 132.**(previously presented)** The cross-laminate according to claim 123, wherein a volume of the
2 film A strands and the film B strands is not greater than 10% of a volume of their respective films.

1 133.**(previously presented)** The cross-laminate according to claim 123, wherein a volume of the
2 film A strands and the film B strands is not greater than 5% of a volume of their respective films.

1 134.**(previously presented)** The cross-laminate according to claim 123, wherein the separation is
2 between 2 mm and 40 mm.

1 135.**(previously presented)** The cross-laminate according to claim 123, wherein the separation is
2 at the highest 20 mm.

1 136.**(previously presented)** The cross-laminate according to claim 123, wherein:
2 the bond strength of the first bonds is at least 40 g cm^{-1} , as measured by a peel test carried
3 out on narrow specimens of the cross-laminate at a velocity of about 1 mm sec^{-1} , and
4 the bond strength of the third bonds are less than or equal to 75% of the bond strength of the
5 first bonds, as measured by the peel test.

1 137.**(previously presented)** The cross-laminate according to claim 136, wherein the bond strength
2 of the third bonds are less than or equal to 50% of the bond strength of the first bonds, as measured
3 by the peel test.

1 138.**(previously presented)** The cross-laminate according to claim 123, wherein an average
2 melting point of the third polymer material and average melting point of the sixth polymer materials
3 are at least about 10°C lower than an average melting point of the first polymer material and an
4 average melting point of the fourth polymer material.

1 139.**(previously presented)** The cross-laminate according to claim 123, wherein an average

1 melting point of the third polymer material and average melting point of the sixth polymer materials
2 are at least about 15°C lower than an average melting point of the first polymer material and an
3 average melting point of the fourth polymer material.

1 140.**(previously presented)** The cross-laminate according to claim 123, wherein an average
2 melting point of the third polymer material and average melting point of the sixth polymer materials
3 are at least about 20°C lower than an average melting point of the first polymer material and an
4 average melting point of the fourth polymer material.

1 141.**(previously presented)** The cross-laminate according to claim 123, wherein the main layer of
2 each of the two films A and B consists essentially of polyethylene or polypropylene.

1 142.**(previously presented)** The cross-laminate according to claim 123, wherein:
2 the main layers are selected from the group consisting of HDPE, LLDPE or a blend of the
3 two, and
4 the bonding layers comprise LLDPE in admixture with 5 - 25% of a copolymer of ethylene
5 having a melting point or a melting range within the temperature range of 50 - 80°C.

1 143.**(currently amended)** The cross-laminate according to claim 123, wherein the bonding layers
2 include an adhesion modifying material ~~adapted to that~~ establishes a blocking of the contacting
3 mutually facing surfaces of the films A and B to each other in regions devoid the their strands.

1 144.**(currently amended)** The cross-laminate according to claim 123, wherein:
2 at least one of the films A and B ~~further including a plurality of~~ includes at least one further
3 array of substantially parallel second strands,
4 where the second strands comprise a polymer material differing in composition, color and/or
5 appearance from the first strands and
6 where the arrays of first and second strands on the film A or film B are interspersed.

1 145.**(previously presented)** The cross-laminate according to claim 123, wherein the polymer
2 material of the strands of at least one of the films A and B includes a colored material that makes the
3 colored strands visible through at least one side of the cross-laminate.

1 146.**(previously presented)** The cross-laminate according to claim 145, wherein the cross-laminate
2 has a thickness at its highest of about 0.3 mm, and:
3 wherein an exterior surface of the film A is corrugated to form a visible pattern of striations

1 extending in one direction,
2 where a spacing of the striations being at most about 3 mm,
3 the main layer and the bonding layer of the film A are substantially transparent to enable the
4 colored strands to be visible when the laminate is observed from one of the exterior surfaces of the
5 cross-laminate, and
6 a depth of the corrugations is sufficient to impart a three-dimensional effect to the cross-
7 laminate such that the strands appear to be spaced internally from the exterior surface of the film A
8 a distance substantially greater than an actual maximum thickness of the film A.

1 147.(**currently amended**) The cross-laminate according to claim 123, wherein the film A further
2 includes:

3 a second continuous bonding layer comprising an seventh polymer material and
4 disposed on a second surface of the main layer, and
5 ~~a plurality of arrays~~ an array of substantially parallel film A third strands coextruded
6 on a top surface of the second bonding layer in a spaced apart configuration and
7 comprising an eighth polymer material different from the first polymer material and
8 seventh polymer material, and

9 the cross-laminate further comprising:

10 a third film C having a main direction of uniaxial or unbalanced biaxial molecular
11 orientation and including:

12 a continuous main layer comprising a ninth polymer material having a high
13 tensile strength,

14 a continuous bonding layer comprising a tenth polymer material and disposed
15 on a first surface of the main layer, and

16 ~~a plurality of arrays~~ an array of substantially parallel film C first strands
17 disposed on a top surface of the bonding layer in a spaced apart configuration
18 and comprising an eleventh polymer material different from the ninth and
19 tenth polymer materials,

20 where the film A and the film C are arranged such that the second surface of the film A faces
21 the first surface of the film C and the second bonding layers of the film A and the bonding
22 layer of film C and the arrays of third strands of the film A and the arrays of strands of the
23 film C face each other and such that the film C main direction crosses the film A main
24 direction and the film C first strands cross the film A third strands,
25 a second bonding pattern formed between the second surface of the film A and first surface
26 of the film C comprising:

27 fourth bonds comprising spot-bonds formed directly between the film A third strands

1 and the film C first strands, where the film A first strands intersect the film C first strands,
2 fifth bonds comprising contact lines between the film A bonding layer and the film
3 C first strands or the film C bonding layer and the film A third strands, and
4 sixth bonds comprising contact regions between the film A bonding layer and the film
5 C bonding layer, where the regions are devoid of the film A third strands and the film C first
6 strands,
7 where the fourth bonds have a higher bond strength than the sixth bonds.

1 148.**(currently amended)** The cross-laminate according to claim 147, further comprising:
2 an exterior layer formed on an exterior surface of at least the film B or the film C comprising
3 a polymer material ~~adapted to~~ that enhances a surface property of the laminate, where the property
4 is selected from the group consisting of its heat-sealing capability and its frictional property.

149.**(canceled)**
150.**(canceled)**
151.**(canceled)**